

Einstein extended Bose's research to the Bose-Einstein condensate. This theory showed that when particles get cold enough, they stop behaving like particles, and they start behaving like waves. A particle exists in a specific place. These bits of matter can move and collide with others. But waves are different—they aren't in a specific place. They wiggle and Respected Sir, I have ventured to send you the accomp your perusal and opinion. I am anxious to know move through things. What's weird is that some subatomic particles can have properties of both particles and waves! Bose's work gave us It signifies an important step forward and pleases me very much... important tools for in the fields of quantum mechanics and particle physics. The particles which carry and exchange force throughout the Universe were eventually named bosons in honor of him, and they are an important part of the Standard Model of particle physics today. Bose was nominated for the Nobel Prize four times, but he never won it. Seven physicists have since won the Nobel Prize building on Bose's ideas. His statistics have been applied to computer science and business. Physicists today are using the condensate

to study dark matter.